

Pneumatic Loading of Blast Holes

SOV-127-58-3-12/24

manual loading to 32 t - by pneumatic loading method. The work productivity of the charging worker was also increased by 40 to 50%. This method is now generally introduced in the Tyrny-Auzskiy Combine. Pneumatic loading of powdered ammonite will be utilised when blast chambers are used. There are 4 figures and 2 tables.

ASSOCIATION: Severo-Kavkazskiy gorno-metallurgicheskiy institut (The North-Caucasian Mining Metallurgic Institute); Tyrny-Auzskiy Kombinat (The Tyrny-Auzskiy Combine).

1. Mining engineering
2. Explosive charges—Preparation
3. Explosive charges—Performance
4. Pneumatic systems—Equipment

Card 3/3

KOBAKHIDZE, V.N., LISOVSKIY, I.I.

Work and plane of the miners of Tyrnyaus. Gor. zhur. no.12:7-
10 D '61. (MIRA 15:2)

1. Direktor Tyrnyauskogo kombinata (for Kobakhidze). 2. Nachal'nik
rudnika "Molibden" Tyrnyauskogo kombinata (for Lisovskiy).
(Tyrnyaus Region--Mining engineering)

OSTROUSHKO, I. A., prof.; YEMENKOV, V. I., dotsent; BOBIN, Ye. G.,
insh.; MEDVEDEV, V. V., insh.; KOBAKHIDZE, L. N., insh.;
KRIVCHIKOV, P. F., insh.; CHUGUNOV, L. F., insh.;
MASTRIUKOV, M. V., insh.

Improving mechanized charging of blastholes. Izv. vys. ucheb.
zav.; gor. zhur. no.9:92-96 '61.

(MIRA 15:10)

1. Severokavkasskiy gornometallurgicheskiy institut. Reko-
mendovana kafedroy gornogo dela.

(Blasting)

KOBAKLIDZE, V. S.

KOBAKLIDZE, V. S. -- "The Role of the Excursion in the Teaching of Physics and Methods of Conducting It." Cand Pedagog Sci, Tbilisi State Pedagogical Inst, Tbilisi 1953. (Referativnyy Zhurnal--Fizika, Jan 54)

SO: SUM: 168, 22 July 1954

Category : USSR/General Problems - Problems of Teaching

A-3

Abstr Jour : Rof Zhur - Fizika, No 3, 1957, No 5551

Author : Kobakhidze, V.

Title : Organization of a Practical Course in Electrical Engineering
(in Secondary School).

Orig Pub : Komunisturi agzardisotvis, 1956, No 6, 23-31

Abstract : No abstract

Card : 1/1

KOBAKHIDZE, Ye.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723410005-9

Natural conditions and resources of the Adzhars A.S.S.R. Trudy
Inst. geog. AN Gruz. SSR 19:25-39 '62.

(MIRA 16:1)

(Adzharistan--Physical geography)

KOBADIKHIDZE, YE. I.

Kobadikhidze, Ye. I. -- "Investigation of the Structural-Mechanical Properties of Suspensions of "Askangel" Depending on the Composition of the Exchange Complex and Equilibrium pH (Values). Inst of Chemistry imeni P. O. Melikishvili of the Acad Sci Georgian SSR, Tbilisi, 1955. (Dissertation for Degree of Candidate of Chemical Sciences)

SO: Knishnaya Letopis', No. 23, Moscow, PP. 87-104.

KOBAKHIDZE, Ye.I.; SHISHONASHVILI, M.Ye.

Thixotropic structure formation and the elasto-plasto-viscous properties of ascangel suspensions. Koll. zhur. 19 no.1:59-67 Ja-J '57. (MLRA 10:4)

1. Institut khimii Akademii nauk Gruz. SSR im. P.N. Melikishvili, Laboratoriya kolloidnoy khimii, Tbilisi.
(Bentonite) (Thixotropy)

"APPROVED FOR RELEASE: 09/18/2001

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APPROVED FOR RELEASE: 09/18/2001

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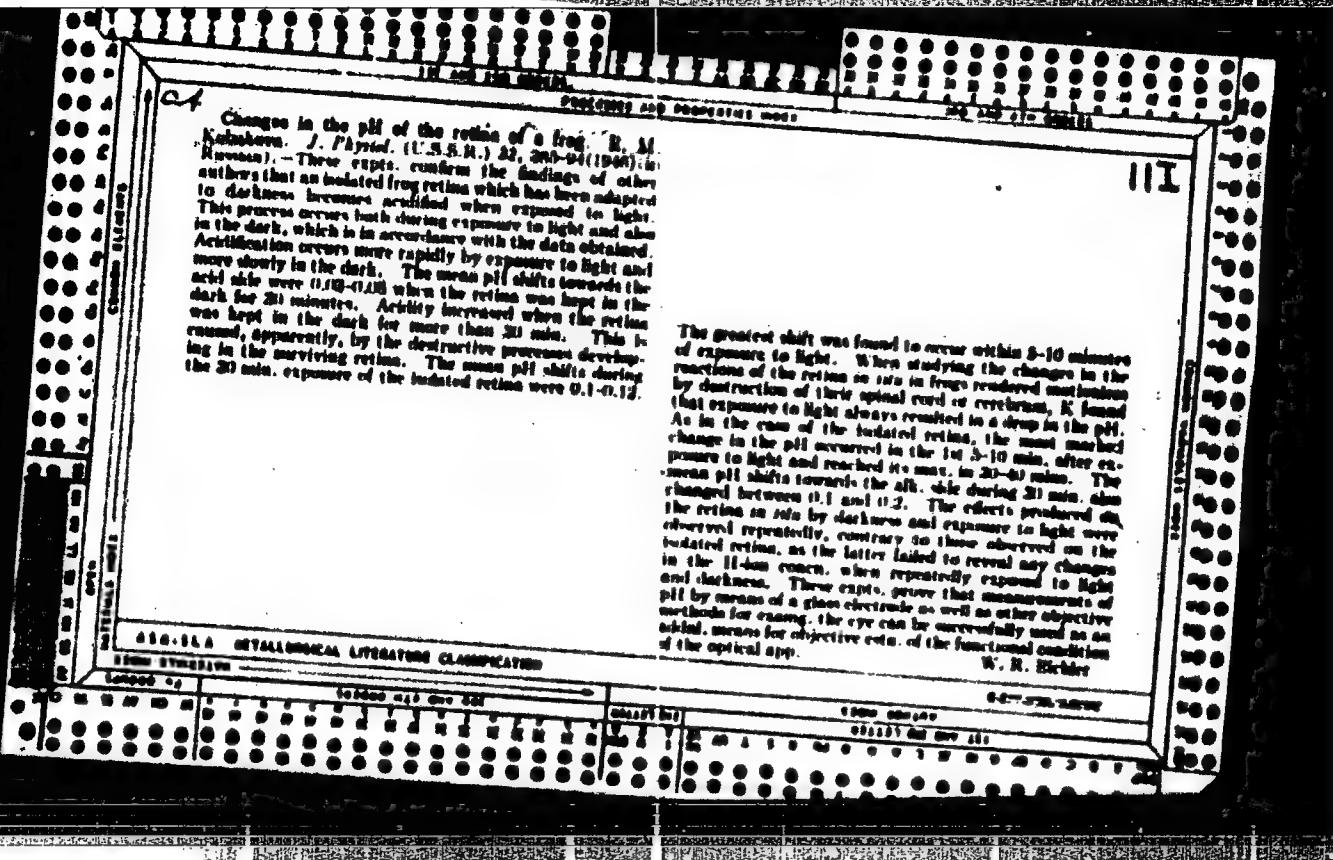
SHISHVASHVILI, M.Ye.; KOBAKHIDZE, Ye.I.

Structure formation in ashangel suspensions. Trudy Inst.khim.AN
Azerb.SSR 17:60-71 '59.
(MIRA 13:4)

1. Institut khimii AN AzerSSR.
(Ashangel)

ZHAROVA, Klavdiya Alekseyevna; KOBAKOV, M.M., kand. tekhn. nauk, otd.
red.; SKRIPKINA, Z.I., red. issd-va; ANOKHINA, M.Q., tekhn. red.

[Furrow irrigation of steep slopes in the Chu Valley] Tekhnika po-
liva po borozdenii na bol'shikh uklonakh Chuiiskoi doliny. Frunze, Iss-
vo Kirgizskoi SSR, 1961. 180 p. (MIRA 14:11)
(Chu Valley—Irrigation)



KOBAKOVA, Ye.M.; TROSHIKHIN, V.A., zavedyushchiy.

Effect of the cerebral cortex upon the motor activity of the small intestine during ontogenesis. Trudy Inst. fisiol. 1:157-165 '54. (Klisa 619)

1. Laboratoriya ontogenetika vyschey nervnoy deyatel'nosti.
(Brain) (Intestines)

BA
A-III

Effect of electrical stimulation of the cerebellum on the motor functions of the visual inhibitor in pigeons. G. M. Andreeva (J. Physiol., USSR, 1952, 50, 12-30).—The effect of recurrent stimulation of the cerebellum on the motor activity of the visual inhibitor was studied in robins and dogs of various ages. Weak additional stimuli increase the inhibitory processes and increased tension, while strong stimulation has an inhibitory effect accompanied by lowered tension. Moderate stimulation may produce both effects in combination, the initial effect being excitatory inhibition and subsequent stimulation. The effects are seen from the first day of life, but the threshold is higher in younger than in older animals. After certain of the tests the motor effects are greatly reduced or eliminated, while the inhibitory effects are increased. After certain of the stimulations the motor effects are strengthened while the inhibitory effects are reduced. D. H. Servo.

Lab. of the Comparative Ontogenesis of the Central Nervous System
of the Inst. of Physiology im I.P. Pavlov, Acad Sci. USSR

KLYAVINA, M.P., KIBAKOVA, Ye.M., STEL'MAIIH, L.N., TROSHININ, V.A.

The speed of formation of conditioned reflexes in dogs in ontogenesis/[with summary in English]. Zhur.vys.nerv. deiat. 8 no.6t929-936
M-D '58
(MIRA 12:1)

1. Laboratory of Comparative Ontogenesis of the Higher Nervous Activity,
Pavlov Institute of Physiology, USSR Academy of Sciences, Koltushi.
(REVIEW, CONDITIONED,
rate of form, in young dogs, age factor (Rus))

(AGING, effects,
on conditioned reflex form, rate in young dogs (Rus))

A-HAKU A YF. 11.

USSR / Human and Animal Physiology (Normal and Pathological).

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723410005-9

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60471

Author : Kobakova, Ye. M.

Inst : INSTITUTE OF PHYSIOLOGY, AS USSR

Title : The Analysis of the Effect of the Central Nervous System on the Motor Function of the Small Intestine in Ontogenesis

Orig Pub : Tr. In-ta fiziol. AN SSSR, 1957, 6, 437-445

Abstract : A unilateral vagotomy or sympatetectomy in rabbits of different age groups did not have any effect on the intestinal movements (IM). A bilateral vagotomy inhibited, and a bilateral sympatetectomy stimulated, stronger and longer IM in older animals. Adrenalin and atropine, given intravenously, inhibited IM from the first days of life. Its effect increased with age.

Card 1/1
deyatel'nosti

~~for~~ Lab. sravnitel'nogo ontogeneza vysshey nervnoy

KOBAKOVA, Ye.M.; KOZLOVA, L.N.; TROSHIKHIN, V.A.

Effect of various doses of gamma rays from radioactive cobalt on
the development of a rabbit in ontogenesis. Nauch. soob. Inst.
fiziol. AN SSSR no.1:163-165 '59. (MIRA 14:10)

1. Laboratoriya sryavnitel'nogo ontogenesa vysshey nervnoy deyatel'-
nosti (zav. - V.A. Troshikhin) Instituta fisiologii imeni Pavlova
AN SSSR.
(GAMMA RAYS—PHYSIOLOGICAL EFFECT) (ONTOGENY)

KOBAKOVA, Ye.M.

Influence of the act of eating and of alimentary conditioned reflexes
on the motor activity of the small intestine in dogs in ontogenesis.
Trudy Inst. fisiol. 9:87-94 '60. (MIRA 14:3)

1. Laboratoriya stravnitel'nogo ontogenesa vysshoy nervnoy deyatel'nosti
(zaveduyushchiy - V.A.Troshikhin) Instituta fiziologii im. I.P.Pavlova.
(DIGESTION) (REFLEXES)

VAVILOVA, N.M.; KOBAKOVA, Ye.M.; OBRAZTSOVA, G.A.; TROSHIKHIN, V.A.

Characteristics of the individual properties of the higher nervous system in dogs based on the alimentary and defensive methodologies. Nauch.sobr. Inst.fiziol. AN SSSR no.3:25-29
'65. (MIRA 18:5)

1. Laboratoriya srovnitel'nogo ontogeneza vysshoy nervnoy deyatel'nosti (zav. - G.A.Obraztsova) Instituta fiziologii imeni Pavlova AN SSSR.

BORSTNAR, Marijan; KOBAL, Mara; VITOROVIC, Momcilo

Thromboembolism of the pulmonary artery during treatment with neuroleptics. Zdrav. vestn. 34 no.14-7 '65.

1. Bolnišnica za duševne in zivčne bolezni Ljubljana-Polje
(direktor prof. dr. Janez Kanoni).

Kobaladze, M. G.

USSR/Analytical Chemistry - Analysis of Inorganic Substances

0-2

Abs Jour : Ref Zhur - Khimiya, No 4, 1957, 12059

Author : Born G.I., Vayns K.P., Kobaladze M.G.

Inst : Commission on Analytical Chemistry of the Academy of Sciences
USSR

Title : On Resolution of Some Analytical Problems Pertaining to Rare
Earths by Means of Radioactivation Analysis

Orig Pub : Tr. Komis. po analit. khimii AN SSSR, 1956, 7(10), 104-118

Abstract : Considered is the possibility of determining some rare earth elements by the method of radioactivation analysis, and it is shown that by simple auxiliary means it is possible to carry out their determination with sufficient accuracy in a number of mixtures. To measure the activity of the irradiated preparations use was made of beryllium-radium (500 mg Ra) a source of neutrons and a unit of B type with an aluminum B-1 counter tube. Described is the procedure of determining Eu in samarium, Dy in yttrium earths free from Gd, and in those containing Gd, of determining Sm in cerium earths free from Eu, and determination of Gd in yttrium earths low in Eu.

Card 1/1

KOBALADZE, S.G.; CHEYSHVILI, R.P.

Results of the use of chloracizin. Trudy Inst. klin.'i eksper.
kard. AN Gruz. SSR 8:441-443 '63. (MIRA 17:7)

1. Kafedra fakul'tetskoy terapii lechebnogo fakul'teta
Gosudarstvennogo meditsinskogo instituta, Tbilisi.

KOBAL'CHUK, L.M., kand. tekhn. nauk; BASKAKIN, Ye.N.; nELOZEPova,
A.S.; ZAGOSKINA, O.V., nauchn. red.

[Mechanized dovetail gluing of wood] Mekhanizirovannoe
skleivanie drevesiny na subchatyi ship. Moskva, TSentr.
nauchno-issled. in-t informatsii i tekhniko-ekon. issledovaniii
po lesnoi, tselliulozno-bumazhnoi, derevoobrabatyvalushchel
promyshl. i lesnomu khoziaistvu, 1963. 43 p.

(MIRA 17:5)

KOBALENKO, P. N.

"A Method of Combined Electrochemical Analysis." Dr Chem
Sci, Moscow Order of Lenin State U imeni M. V. Lomonosov, 12 Nov
54. (VM, 1 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

KOBALENKO, V.I.

Kobalenko, V.I. "Synthesis of diethyl and methyl-ethyl ethers of pyrocarbonic acid by a new method," (reference), Sotsial. o nauch. rabotakh chlenov Vsesoyuz. Khim. o-va im. Mendeleyeva, 1948, Issue 2, p. 24.

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

YEZERSKIY, M.D.; ALEXANDROV, I.K.; SMIGEL'SKIY, P.K.; KORALENKO, V.I.; LUKASHEVICH, A.S.; KUZNETSOV, M.I.

Improving postal service. Vest. svyazi 15 no.3:16-18 Mr '55;

(KIRA 8:5)

1. Nachal'nik otdela pochtovoy svyazi Ministerstva svyazi Ural'skoj SSR (for Yezerskiy). 2. Zamestitel' nachal'nika Severo-Osetinskogo upravleniya svyazi (for Aleksandrov). 3. Nachal'nik Kabardinskogo upravleniya svyazi (for Koralenko). 4. Nachal'nik strakhovogo otdela Tushno-Sakhalinskoy kontory svyazi (for Lukashovich). 5. Zamestitel' nachal'nika Pensenskogo oblastnogo upravleniya svyazi (for Kuznetsov).
(Postal service)

SSSR/Geophysics -- Seismographic Prospecting KOBALYSTAYA, N. A.

Key/Jun 53

"Review of 'Instructions for Seismic Prospecting,'" (I. Ferzen and A. Yeninam'yeva, reviewers)

Iz Ak Nauk SSSR, Ser Geofiz, No 3, pp 271-274

Review the symposium "Instruktsiya po geofizicheskoy seismicheskoy issledovatel'stviyu," a compilation of works contributed by A. S. Kuppan, V. N. Mitrofanov, N. A. Kobalevskaya, T. B. Sokolova, K. S. Avireysova in participation with I. I. Gurvich, N. G. Shridt, and G. N. Shablingskiy, and edited by I. K. Xupolov-Yaropolk. Published by the State Geology Press, Moscow, 1952, 94 pp, 5,000 copies, 2.90 rubles.

258790

KOBALEVSKIY, N. V.

1374/5
632.1
.37
1952

KOBALEVSKIY, N. V.

Stankov, Sergey Sergeyevich. Nashi lekarstvennyye rasteniya
(Our medicinal plants, by) S.S. Stankov i N.V. Kobalevskiy . 2.
ispr. i dop. izd. Gor'kiy, Gor'kovskoye Oblastnoye Gos. izd-vo,
1952. 242 p. illus. Bibliography: p. 211-224

KOFALIEVSKIY, V. L.

Zhilishchnoye Stroitel'stvo V Pyatoy Pyatiletke (Housing in the
Fifth Five Year Plan) Moskva, Gospolizdat, 1951.
77 p. Illus., Tables.

Sot: N/5
783.3
.K811

KOBALOYEV, A.D., starshiy veterin.vrach

Attacking winged animal pests. Veterinariia 41 no.3:54-55 Mr '65.
(MIRA 18:4)

1. Ministerstvo proizvodstva i zagotovok sel'skhozyaystvennykh
produktov Severo-Osetinskoy ASSR.

ACC NR: AP6033834

SOURCE CODE: UR/0139/66/000/005/0019/0023

AUTHOR: Kobanov, M. V.

ORG: Siberian Physicotechnical Institute im. V. D. Kuznetsov (Sibirskiy fiziko-tehnicheskiy institut)

TITLE: Attenuation of a light signal in a dispersive medium Part 4 Interference effects in light scattering

SOURCE: IVUZ. Fizika, no. 5, 1966, 19-23

TOPIC TAGS: light scattering, particle scatter, signal propagation, light beam, particle interference, scattering factor

ABSTRACT: The author presents a quantitative evaluation of effects related to the interference of scattered waves by a combination of particles. It is shown that in the propagation of a collimated light beam in a turbid medium, there occurs an additional elongation of the indicatrix of scattering a system of particles compared with that for a single particle due to the interference effects. The resulting interference "tongue" is concentrated at a very small angle in the direction of light beam incident on the system of particles and amounts to a few minutes over

Card 1/2

ACC NR: AP6033834

a wide range of experimental conditions. Equations were derived for an instrumental scattering factor in the case of light dispersion on volumes in the shape of a sphere, a disc, and a rod. An analytical mode of the equations obtained indicates the possibility of concentration effects in experiments in a turbid medium. Orig. art. has: 12 formulas and 1 table. [Based on author's abstract]

SUB CODE: 20 / SUBM DATE: 09Jan85 / ORIG REF: 004 / OTH REF: 002 /

Card 2/2

LEONIDOV, Mikhail Fedorovich; SIDOROV, P.P., redaktor; KOBANOV, Ye.N.,
redaktor; BOZOVAYLEVSKIY, A.V., retsezent; KRASHAYA, A.I.,
tekhnicheskiy redaktor

[Operating floating cranes in city harbors on a cost accounting
basis] Iz opyta raboty plovuchikh kranov Gor'kovskogo porta na
khozraschete. Moskva, Izd-vo "Rechnoi transport," 1955. 40 p.
(Cranes, derricks, etc.) (MLRA 9:3)

TERMOLAYEV, P.S., kand.tekhn.nauk; KOBANOV, V.I., inzh.

New oscillating mill for grinding building materials. Stroi.i
dor.mash. 7 no.2126-30 7 '62. (MIRA 15:5)
(Milling machinery)

KOBANOVA, L.M., PONOMAREV, V.D.

Precipitation of arsenic from zinc and cadmium sulfate
solutions. Trudy Alt. GMNI AN Kazakh. SSR no.3:136-156
'56.

(MIRA 10:2)

(Zinc--Metallurgy) (Cadmium--Metallurgy) (Arsenic)

KOBATELOV, V.

"Improving Hygiene in Food Enterprises." p. 2,
(ZRAVEN FRONT, No. 50, Dec. 1954, Sofiya, Bulgaria)

SJ: Monthly List of East European Accusssions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

MOSCHEVA, P. [Mosheva, P.]; TOPALOVA, E.; SAGORTSCHEV, B. [Zagorchev, B.];
KOBARELOVA, S.

Separation of indium and zinc through ion exchange. Doklady BAN
16 no.1:73-76 '63.

1. Vorgelegt von Akademiemitglied D. Ivanoff [Ivanov, D.].

DULGARIA/Analytic Chemistry. Analysis of Inorganic
Substances.

Abs Jour: Ref Zhir-Khim., No 23, 1958, 77282.

Author : Kobarelova St., Trifonov As.
Inst : Institute of Chemistry and Technology.
Title : Polarographic Determination of Cobalt in Ores
and Concentrates.

Orig Pub: Godishnik Khim.-tekhnol. in-t, 1956 (1957), No 1,
261-270.

Abstract: A polarographic method including the preliminary precipitation of Fe^{3+} in the shape of $Fe(OH)_3$ from pyridine buffer medium, the wave of Fe^{2+} preceding the reduction wave of Co^{3+} , was applied to the determination of Co in ores and concentrates. A sample of the ore to be ana-

Card : 1/3

KOBARELOVA, S.

COUNTRY	BULGARIA	B
CATEGORY	Physical Chemistry. Electrochemistry	
ABS. JOUR.	RZhim., No. 1 1960, No. 620	
AUTHOR	Trifonov, A.; Kobarelova, S.	
INST.	Bulgarian AS, Chemical Institute	
TITLE	On Certain Phenomena in the Course of Separation of Cobalt on the Mercury Drop Electrode. I.	
ORIG. PUB.	Izv. Khim. in-t. B"lg. AN, 1958, 6, 229-233	
ABSTRACT	On polarograms of the reduction of the Co^{+2} ion on the Hg drop electrode in the presence of small quantities of Co^{+3} against a background of LiCl, KCl and BaCl ₂ , an anomalous wave (AW) is observed with a potential 0.2 v more positive than the wave of the reduction of $\text{Co}^{+2} \rightarrow \text{Co}$. The height of AW increases with the dilution of the indifferent electrolyte and decreases according to a linear law with the	
CARD:	1/3	

MOSHEVA, P.; TOPALOVA, E.; ZAGORCHEV, B.; KOBARELOVA, St.

Separation of indium from zinc by ion exchange. Godishnik
khim tekhnika 9 no. 1:21-29 '62 [publ. '63].

TAIPONOV, As.; KOBARELOVA, St.

On some phenomena in separating cobalt on the dropping mercury electrode. II. Izv Inst khim BAN 7:133-144 '60.

(EEAI 10:9)

1. Khimicheski institut pri BAN i khimickotekhnologicheski institut v Sofia.

(Cobalt) (Electrodes, Dropping mercury)

STREL'YANOV, V.I.; KESNICHENKO, Z.V.; GERASHCHENKO, Ye.I.; SKRIVET, V.B.S.;
SNIJARENKO, N.V.; KOBAROV, V.A.; SPICHKIN, I.M.; GOREBOLY, Ye.I.;
UVAROVA, A.Y., tekhnicheskly redaktor.

[Spare parts for the S-4 self-propelled combine; a reference catalog]
Zapасные части самокходного комбайна С-4; справочник-каталог.
Moskva, Gos. nauchno-tehnicheskoe izd-vo mashinostroit.lit-ry, 1956.
179 p.

(Combines (Agricultural machinery))

KOBAROV, Vasiliy Aleksandrovich; RUMYANTSEV, Yevgeniy Konstantinovich;
PESTRYAKOV, A.I., red.; DEYIEVA, V.M., tekhn. red.

[Concise manual on the SK-3 and SK-4 combines] Kratkii spravochnik po kombainam SK-3 i SK-4. Moskva, Sel'khozizdat,
1963. 319 p. (MIRA 16:7)
(Combines (Agricultural machinery))

pounds are better than the previously employed luminescent
bleaches; styryl derivatives and bis-naphthotriazoles, based
on 4,4' - diaminestyrene-2,2' - sulfo acid, since the
fluorescence of the latter has a color from green-blus to
yellow-green. A. Gorshak

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Card : 1/1

KOBASKO, N.I.) PROKHORENKO, N.I.

Effect of the rate of quenching during hardening on the formation of cracks in steel 45. Metalloved. i term. obr. met.
no. 2853-54 P'64. (MIRA 17-7)

1. Kiyevskiy zavod Stroydormash.

Anomalous Azbel-Kaner resonance effect in lead telluride.

A. Kobayasi (20 minutes).

Chemico-analytical methods of determination of micro-impurities in doped monocrystals of the type Al_2Si_3 . I. B. Mizetskaya, L. M. Kalashnik, O. P. Kulik, I. G. Chernyy.

Doping of cubic monocrystals of CdS in the process of their growth and some physical characteristics of the resulting samples.

N. I. Vitrikhovskiy, I. B. Mizetskaya.

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

TRAKHTENGERTS, Anatoliy Yakovlevich; KOBAYASHIY, Vladimir Fedorovich;
MOSKOVSKIY, F.A., redaktor; SAVEL'YEV, V.I., redaktor; LARIOMOV,
G.Ye., tekhnicheskij redaktor

[Accounting for the material and equipment supply in major
construction] Uchet predmetov material'no-tehnicheskogo snabze-
niia v kapital'nom stroitel'stve. Pod obshchej red. F.A.Moskovsko-
go. Moskva, Gos. energ. izd-vo, 1956. 135 p.
(Construction industry--Accounting) (MIRA 9:9)

KOBAYENKOV, V. F.

Promyshlenny uchet na elektrostantsiyakh, zavodakh i torgopredpriyakh "Industrial Accounting in Power Plants, Factories and Peat Processing Plants," by A. Ya. Trakhtengerts i V. F. Kobayenkov. Moskva, Gosenergoizdat, 1958.

309 p. diagrs., tables.

"Literatura": p. 311

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723410005-9

(Telecommunications)

~~Give a detailed description of a device or system used in this connection.~~

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IOFFE, V.I., insh.; KOBAYLOV, A.P., insh.

Nozzles for the DSh-54 holder for welding in a carbon dioxide atmosphere. Mont. i spets. rab. v stroi. 25 no. 3:26 Mz '63.
(MIRA 16:2)

1. Trest Yuzhstal'konstruktziya.
(Gas welding and cutting—Equipment and supplies)

PLATONOV,

KOBAZEV, I.

Potatoes

Storing potatoes. Nauka i zhizn' 20, No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

KORAEV, Ivan Andreevich, OZEROV, V.N., red.; MAKHOVA, N.N., tekhn. red.;
ZUBILINA, Z.P., tekhn. red.

[Practical laboratory exercises in organic chemistry] Laboratorno-
prakticheskie zadaniia po organicheskoi khimi. Moskva, Gos.
izd-vo sel'shos, lit-ry, 1958. 187 p.
(MIRA 11:7)
(Chemistry, Organic—laboratory manuals)

BARTOSZEWICZ, Ryszard; OSTROVSKIY, Ya. [translator]; STOLYAREK, Ya.
[translator]; KOBAZEV, I.A., red.

[Methods of deoxidizing organic combinations] Metody vosstanov-
leniya organicheskikh soedinenii. Pod red. I.A.Kobazeva. Mo-
skva, Izd-vo inostr. lit-ry, 1960. 406 p. (MIRA 14:11)
(Chemistry, Organic) (Reduction, Chemical)

VEDERNIKOV, M.; PRIZHKO, M.; KOBASZEV, V., prepodavatel'

Major chemical industrial complexes should have qualified personnel,
Prof.-tekhn. obr. 20 no.10:12 0 '63. (MIRA 16:12)

1. Direktor tekhnicheskogo uchilishcha No.4 g. Severodonetskaya,
Luganskaya obl. (for Vedernikov). 2. Zamestitel' direktora
tekhnicheskogo uchilishcha No.4 g. Severodonetskaya, Luganskaya obl.
(for Przhko). 3. Tekhnicheskoye uchilishche No.4 g. Severodonetskaya,
Luganskaya obl. (for Kobazev).

FURMAN, A.O.; KOBAZEY, Ye.I.

Using the "TISS" radiometer for recording soft Beta radiation.
Inv. TSKhA no. 21232-233 '61. (MIRA 14:8)
(Beta rays) (Radiometer)

S/263/62/000/003/013/015
1004/1204

AUTHOR: Furman, A. O. and Kobazev, Ye. I.

TITLE: Use of a "THCC" ("TISS") type radiometer for measurement of soft beta radiation

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. Izmeritel'naya tekhnika, no. 3, 1962, 50, abstract 32.3.316. "Izv. Timiriazevsk. s.-kh. akad.", 1961, no. 2, 232-233

TEXT: In the radio-isotopes laboratory of TCXA (TSKhA), based on the T4 (TCh) type of detector for the "THCC" ("TISS") radiometer, transducer T4-M (TCh-M) was developed which enables widening the energy range of the device so as to include the soft beta radiation up to the energy of approx. 40 kev. In the new detector, instead of the three cylindrical counters CTC-6 (STS-6), six end-type counters T-25-БФЛ (T-25-BFL) (with parallel connection of anodes) were vertically installed, fixed in a metallic di-mountable clip mounted in the transducer casing. The main "TISS" unit supplies the 1500 V voltage to the anodes. The principal- and the wiring-diagram of the transducer were adapted to the design features of the T-25-BFL. The receiving window of the detector was covered with a thin polyethylene sheet (1 to 2 mg per cm²), which safeguarded the counters against dust and radioactive contamination. An electrical diagram of the detector is given. Beta radiation of C¹⁴, S³⁵, and Ca⁴⁵ may be measured by means of this detector.

[Abstracter's note: Complete translation.]

Card 1/1

FURMAN, A.O.; KOBAZEV, Ye.I.

Apparatus for measuring radioactive preparations of low activity
by hard beta rays. Iss. TSKHA no. 5:195-202 '62. (MIRA 16:7)

(Radiometry)

GARNETSKIY, V.A., aspirant; KOBAZEY, Ye.I., starshiy laborant; RACHINSKIY, V.V., doktor khimicheskikh nauk, prof.; FURMAN, A.O., starshiy prepodavatel'

Variant of the automatic apparatus for recording the elution and column curves of the distribution of tagged elements in chromatographic analysis. Izv. TSKhA no.4:224-229 '63.

(MIRA 17:1)

KOBBAZYUK, A.S., kand.tekhn.nauk, dots.

Gasification of gas coal in a cyclone furnace. Izv. vys. ucheb.
zav.; energ. 4 no.2:62-74 P '61. (MIRA 14:3)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy
promyshlennosit. (Coal gasification)

KOBCHENKO, N.A., inzh.

The 2KKN-2,8 ringed-toothed rollers. Trakt. i sel'khozmash. no.8:
30 Ag '64. (MIRA 17:11)

1. Tsentral'no-Chernozemnaya mashinoispytatel'naya stantsiya.

KOBCHIKOV, I.

Kobchikov, I. and Mikhaylov, G. "How to plan the production of a collective farm"
(Consultation), Sel. khoz-vo Tadzhikistana, 1949, No. 1, p. 77-80.

So: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

KOBCHIKOVA, I.

19979 KOBCHIKOVA, I. Soveshcheniye po voprosam organizatsii i opgaty truda v. kolkhozakh. N vo sel' skogo khozyaystva SSSR. 1949 g. 7 Sots. sel. khoz-vo, 1949, No. 6, s. 59-61.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

KOBCHIKOVA, I. A.

Organizatsiya i opлata truda v polevodcheskoy brigade kolhoza (Organization and
wages of labor in the farming brigade of a kolkoz, by) I. A. Kobchikova (i)
M. G. Solenova. Moskva, Sel'khozgiz, 1953.
171 p. illus., tables.

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722.101
.081

KOBCHIKOVA I.A.

TRIMENT'YEV, M.L.; OSAD'KO, N.P.; BRAGILESKIY, B.I.; SLOBODIN, V.M.; FISHMAN,
Z.A.; LEVIN, I.Ye.; TSYMKOV, M.Tu.; BADIR'YAN, G.O.; TYUTIN, V.A.;
ABRAMOV, V.A.; PRAYIKH, S.V.; KOBCHIKOVA, I.A.; KARMAUKHOVA, Ye.I.;
OBOLINSKIY, K.P.; IL'IN, S.A.; GAVRILOV, V.I.; FENYDMAN, S.M.;
KALASHNIKOVA, V.S., redaktor; LAPIDUS, M.A., redaktor; RAKITINA,
Ye.D., redaktor; MEDOTOVA, A.F., tekhnicheskij redaktor

[Manual for students of collective farm economy] V pomoshch'!
izuchaiushchim ekonomiku kolkhozov. Moskva, Gos. izd-vo selkhoz.
lit-ry, 1956, 423 p.
(Collective farms)

(MIRA 10:1)

KOLESMOV, S.G., red.; KOTOV, P.P., red.; KORCHIKOVA, I.A., red.; MEL'NIKOV,
V.P., red.; OSAD'KO, M.P., red.; CHUVIKOV, V.A., red.; KALASHNIKOVA, V.S.,
red.; TROFIMOV, E.I., red.; FEDOTOVA, A.P., tekhn.red.

[New developments in collective farm organization and wages] Novoe
v organizatsii i oplatе truda v kolkhozakh. Moskva, Gos.izd-vo
sel'khoz.lit-ry, 1957. 319 p. (MIRA 11:1)
(Wages) (Collective farm)

KOBCHIKOVA, I.A.

[Material incentives for collective-farm workers to produce good crops] Material'noe pooshchernie kolkhoznikov za vysokie uroshai.
Moskva, Gos.izd-vo sel'skhoz.lit-ry, 1958. 68 p. (MIRA 13:8)
(Wages) (Collective farms)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9

KOEE, J.

"Machine-tool construction", by H. Mauri. Pt. 2. 6th ed. Reviewed by
J. Kobo. Stroj vest 9 no.4/5:13) O '63.

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9"

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9

KOBE, J.

"Technology of mounting the machines, motors, and installations" by
M.P. Nowikow. Reviewed by J. Kobe. Stroj vest 7 no. 4-5:124 0 61.

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9"

KOBE, J.

"Machine-tool construction" by H.E. Scheibe. Reviewed by J. Kobe.
Stroj vest 8 no.4/5:116 O '62.

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9

GABELOVA, N.A.; KOBRAKOV, V.V.

Muscular protein structure in connection with the muscular contraction problem. *Akade. biol 17 no.2:29-46 Mr-Ap '63.*

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9"

KOBECKI, R.

An investment plan of veterinary service for 1953. p. 178. MEDYCyna WETERINARYNA
Vol. 9, no. 4, April, 1953.

SO: Monthly List of East European Accessions, L. C., Vol. 3, No. 4, April, 1954.

1. KOBEK, S. I.
2. USSR (600)
4. Irrigation Canals and Flumes
7. Control of water loss from irrigation canals.
Dost. sel'khoz. No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

KOBIK, S.I.; GNIPPA, A.V., redaktor; YELIZAVETSKIY, V.S., redaktor;
PETROUSHKO, Ye.I., tekhnicheskij redaktor

[Operation of a farm's irrigation system] Eksploatatsija vodno-
trikhosiaistvennoi orositel'noi seti. Moskva, Gos.izd-vo
selkhoz.lit-ry, 1955. 148 p.
(Irrigation farming)

ZAMARIN, Ye.A., doktor tekhn. nauk., prof.; ZHURAVLEV, G.I., kand. tekhn. nauk; KORNIY, S.I., kand. tekhn. nauk; KHROMOVETS'KIY, N.D., kand. tekhn. nauk; NIKOLAEV, I.G., inzh., nauchnyy red.; GOLOUBEKOVA, L.A., red. inz-va; POKROW, M.N., tekhn. red.

[Hydraulic structures in agriculture] Sel'skokhoziaistvennye gidrotehnicheskie sooruzheniya. Moskva, Gos. izd-vo lit-ry po stroit. i arkhit., 1957. 289 p.

(Hydraulic engineering)

(MIL 11:7)

VASIL'Yeva, I.A., dotsent; KOBEN, S.I., dotsent; KORYUKIN, S.N., starshiy prepodavatel'; CHAVTORAYEV, A.I., dotsent; POPOV, K.V., prof., red.; KRZHIZHANOVSKAYA, G., red.; SHISHNOVA, Ye., tekhn.red.; PROKOF'Yeva, L., tekhn.red.

[Practical laboratory work in a course of the study of hydraulic structures] Laboratorno-prakticheskie zadaniia po kursu gidrotehnicheskikh sooruzhenii. Pod red. K.V. Popova. Moskva, Gos. izd-vo sel'khoz.lit-ry, 1959. 143 p.

(MIRA 1421)

(Hydraulic structures)

Kobeko, N. P.
USSR/Atomic and Molecular Physics - Liquids, D-8

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34493

Author: Kobeko, N. P.

Institution: None

Title: Glass as a Homogeneous System, Capable of Attaining an Equilibrium State

Original Periodical: Collection: Stroyeniye Stekla, Moscow-Leningrad, Academy of
Sciences USSR, 1955, 296-298

Abstract: None

1 of 1

- 1 -

MALISH, V. [Malysh, V.]; BALAKIREV, O. [Balakiriev, O.]; KOBELETSKIY, Ya.
[Kobelots'kiy, Ya.], red.; LOHKO, A., kand.tehn.nauk

News of soviet science and technology. Znan. ta pratsia no. 12:16
D '60. (MIRA 14:4)

1. Redaktor Dernililitvidava URSS (for Kobelotskiy).
(Technological innovations)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9

IL'IN, I.I., kand. med. nauk (Sevastopol'); BURSHTEYN, Yu.Ya. (Sevastopol');
KOBELEV, A.A. (Sevastopol')

Treatment of chronic prostatitis with intrafocal introduction of
corticosteroid hormones. Urologia. no.5:38-41 '64. (MIRA 18:8)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9"

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9

KOBEL'EV, M. I.
GERSHOV, M. I.; AMPLIYEV, V. N.; KOHNEV, A. P.

Peroxide bleaching of cotton and linen fabrics. Tekst.prom.15
no.10:42-43 0'55. (MLRA 8:12)
(Bleaching)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9"

БОНКЕВ, В., асанар'-аборшохик

Lengthening the life of machine parts. Prof.-tekh. otr. 18
no. 5:14 My. '61. (MIRA 14:8)

1. Ремонтома училищча №.15, г. Кхар'ков.
(Lathes)

MUCHINSKIY, A.V.; KOBLEV, P.S.; MANTROV, V.M.

Methods for measuring mercury vapor density. Trudy VSI no.63:
170-191 '58. (MIRA 11:11)
(Mercury-Density)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9

KOBELEV, F.S., inzh.; NAUMENKO, Yu.M., inzh.; RUBCHINSKIY, A.V., kand.
tekhn. nauk

Errors of the Mak-Leod system pressure gauge. Elektrotehnika
(MIRA 17:9)
36 no.8:56-57 Ag '64.

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9"

66697

SOV/109-4-8-17/35

24,2/20

AUTHORS:

Rubchinskiy, A.V., Kobelev, P.S. and Mantrov, V.M.

TITLE:

Application of the Oscillations on a Small Anode to the Measurement of Gas or Vapour Density

PERIODICAL: Radiotekhnika i elektronika, 1959, Vol 4, Nr 8,
pp 1311 - 1315 (USSR)

ABSTRACT:

The method is based on the correlation existing between the amplitude of the oscillations appearing in a low-pressure discharge on a small anode and the density of the gas or vapour in the discharge (Ref 1). The density is measured by introducing a small anode into a discharge. This is usually in the form of a molybdenum or tungsten wire having a diameter ranging from 0.01 to 2 mm and a length of several mm. The source of electrons necessary for the maintenance of the discharge is a small auxiliary arc or a heated cathode. A positive voltage is applied to the anode through a suitable limiting resistance. When the current density at the small anode is greater than 0.05 to 0.1 A/cm², the voltage at the anode (with respect to the cathode) has a form of high-frequency oscillations

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SOV/109-4-8-17/35

Application of the Oscillations on a Small Anode to the Measurement
of Gas or Vapour Density

having an amplitude of a few tens or hundreds of volts and a frequency in the range of 10^4 to 10^6 c.p.s. (Figure 1). It is possible to construct suitable calibration curves for the measurement method. These should show the dependence of the oscillation amplitude at the anode on the gas or vapour density. For mercury, the curves can be taken by measuring the oscillation amplitude by an oscilloscope at various temperatures of the cooling water which defines the pressure of the saturated vapour. Typical calibration curves $A = f(p)$ for three different values of discharge current are shown in Figure 2. The supply source to the tube should be chosen suitably; when the amplitudes of the oscillations are of the order of 300 to 400 V, the supply voltage must be about 800 to 1,000 V. Calibration curves $A = f(p)$ for mercury vapour with the anodes of different diameters are shown in Figure 3. The accuracy of the calibration curves is limited by the accuracy in the measurement of the amplitude and the temperature of the cooling water. It is thought that

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of Gas or Vapour Density

the error in the measurement does not exceed 10%. The small-anode oscillations appear not only in mercury but in hydrogen, rare gases and various other gases. In all cases, the amplitude of the oscillations decreases as the gas pressure is increased. This can be seen from Figure 5, which shows the amplitude of the oscillations for Xe, Kr, Ar, Ne and H₂; the anode in this case had a diameter of 0.2 mm and a length of 3 mm. The discharge was operated by means of a d.c. source and the electrons were provided by means of a heated tungsten cathode.

There are 5 figures, 1 table and 2 references, 1 of which is Soviet and 1 German.

SUBMITTED: March 5, 1959

X

Card 3/3

KOBELEV, P.S., inzh.; NAUMENKO, Yu.M., inzh.

Measurement of vacuum in a pumpless mercury-arc rectifier.
Vest. elektroprom. 33 no.11:58-60 N '62. (MIRA 15:11)
(Mercury-arc rectifiers)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9

KOBELEV, F.S., inzh.; NAUMENKO, Yu.M., inzh.

Absorption of an inert gas in gas-filled mercury rectifiers.
Elektrotehnika 35 no.2:41-42 F '64. (MIRA 17:3)

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9"

KOBLEV, G.V., inzh.; MAKAYEV, S.A., rei.; SOSINA, A.L., tekhn. red.

[Collected inventions; automotive transportation and highways]
Sbornik izobretений; avtomobil'nyi transport i shosseinye dorogi. Moskva, Tsentr. biuro tekhn. informatsii, 1961. 166 p.
(MIRA 15:7)

1. Russia (1923- U.S.S.R.) Komitet po delam izobretaniy o otkrytiy.

(Transportation, Automotive) (Motor vehicles)
(Road machinery)

KOBEL'EV, I. A.

"Method for the Determination of the Altitude of Individual Clouds in Accordance With the Data of Pilot-Balloon and Nephoscopic Observations," Meteorol. i gidrologiya,

The author's purpose is to increase the accuracy of pilot-balloon observations on the height of clouds that do not form a continuous layer. With this aim he proposes to determine the height of a cloud as the height at which the direction and speed of the wind according to the pilot balloon coincides with those of nephoscopic observations. For the nephoscopizing he proposes that the pilot-balloon theodolite also be applied. The author explains in considerable detail the method of observation and the method of handling of the data obtained during parallel nephoscopic and pilot-balloon observation. In 70% of the cases, as tests showed, the method gives rather definite results.
(RZhGeol, No 5, 1954)

SO: Sum No. 568, 6 Jul 55

KOBEL'EV, K. A.

Step (D)

Meteorological Abst. 4.11-51
Vol. 4 No. 11
Nov. 1953
Meteorological
Observations and
Instruments

551.507.3:598.65:551.506.621
Kobel'ev, K. A., Golubezond. [A "pigeon"-sonde.] Meteor-
ology i Gidrologija No. 8:26-27, 1952. DDC—For
more frequent sounding of the lower atmosphere at Riga
Observatory the author designed a special light-weight
meteorograph. The instrument (weight is about 42 gr) is
located in a special box on the back of a pigeon which is
raised by pilot balloon. When the Bickford fuse holding
the boxbottom burns out it frees the pigeon with the
meteorograph. Usually the pigeon comes back from a height
of 1.5 km in 20-30 min. and from a height of 4-5 km in 1.5-2
or more hours. The accuracy of the author's instrument
was $\pm 1.7^{\circ}\text{C}$. Subject Headings: 1. Pigeon meteorograph
2. Riga Observatory, Latvia.—N.T.S.

KOBEL'EV, I.A.

Method of determining the altitude of individual clouds on the
basis of pilot balloon data and nephoscopic observations. Meteor.
i gizrol. no.9:45-47 8-0 '53. (MIRA 8:9)
(Clouds)

AKHMEDOV, I. M.; KORELEV, L. G.

Bee Culture - Queen Rearing

Artificial production of queens. Pchelovedstvo 29 No. 10, 1952.

Monthly List of Russian Acquisitions, Library of Congress, November 1952. UNCLASSIFIED.

KOBLEV, L. Ya., Cand Phys-Math Sci -- "Certain problems of the system of interacting particles." Sverdlovsk, 1961 (Acad Sci USSR. Ural Affiliate).
(KL, 4-61, 183)

V. N. VYATKIN, S. V., KOBYLEV, L. YA., RODIONOV, K. P.

Electromagnetism

Toward the theory of galvanomagnetic phenomena in ferromagnetic materials. Izv. AN SSSR.
Ser. fiz. 16 "o. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

KOBEL'EV, L.Ya.

Taking correlation into account in a system of interacting particles,
Inv. vys. ucheb. zav.; Pis. no.1:68-77 '58. (MIRA 11:6)

1. Ural'skiy gosuniversitet imeni A.M. Gor'kogo.
(Particles, Elementary) (Quantum theory)

AUTHOR: Kobelev, L.

SOV/126-6-2-24/34

TITLE: On the Description of Mutually Interacting Particles by Means of Green's Function (Ob opisanii sistemy vzaimodeystvuyushchikh chastits s pomoshch'yu funktsiy Grina)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 2,
pp 354-356 (USSR)

ABSTRACT: A system of $N(N \gg 3)$ charged non-relativistic Fermi particles interacting through a Bose field is considered. The particles may, for example, be electrons in an electromagnetic field. In the self-consistent field approximation the probability of finding an electron at x_j will be the same and hence the electromagnetic field produced by all the particles at x_j (except the j -th particle) is determined by the 4-potential ($\hbar/2\pi = c = 1$)

$$\square A_0(x_j) = e\phi^*(x_j)\phi(x_j); \square A_i(x_j) = e(\phi^*(x_j)\nabla_i\phi(x_j) - \phi(x_j)\nabla_i\phi^*(x_j)) \frac{1}{2m}; \quad x = \{\vec{x}, it\}; \quad i = 1, 2, 3, \quad (1)$$

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On the Description of Mutually Interacting Particles by Means of
Green's Function

where $\psi(x)$ is the wave function for an electron of the system which interacts with the self-consistent field of the remaining particles. In other words, $A_\mu(x)$ ($\mu=0,1,2,3$) is the mean potential obtained by "smearing out" the charge of the electrons over all space and with the same charge density. Formally, this means that one may treat the equation of motion of an electron in the self-consistent field as an equation of motion of a "quasi-particle" moving in a "natural electromagnetic field". The "natural electromagnetic field" is the average electromagnetic field produced by all the particles of the system and the "quasi-particle" corresponds to an electron whose mass is modified by the interaction with the self-consistent field of the system and other fields. With this approach to the problem of a system of particles with a self-consistent interaction, the system may be described by Green's functions obtained from Schwinger's dynamical principle and which satisfy Schwinger's equations with a suitable choice of the Lagrangian. The self-consistent field equations obtained using Green's

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On the Description of Mutually Interacting Particles by Means of
Green's Function SOV/126-6-2-24/34

functions are generalisations of the Hartree-Fock equations since they take into account virtual transitions in electron scattering processes in the self-consistent field of the system. Professor S. V. Vonsovskiy is thanked for his advice. There are 5 references, 2 of which are Soviet, 2 English, 1 German.

ASSOCIATION: Ural'skiy gosuniversitet imeni A. M. Gor'kogo
(Ural State University imeni A. M. Gorkiy)

SUBMITTED: March 30, 1957

Card 3/3 1. Particles--Motion 2. Mathematics--Applications
 3. Functions--Applications

Korelev - L.

AUTHORS: Voloshinskiy, A. and Kobelev, L. SOV/126-6-2-25/34

TITLE: On the Dispersion Relation for an Electron Plasma
(O dispersionnom sootnoshenii dlya elektronnoy plazmy)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 2,
pp 356-357 (USSR)

ABSTRACT: The dispersion relation for an electron plasma which was first obtained by Vlasov (Ref.1) was also discussed by Klimantovich et alii (Ref.2) and Bohm (Ref.3). In all these papers the plasma was considered in the self-consistent field approximation. Virtual interaction of electrons with the self-consistent field when electrons are scattered by the field was not taken into account. The problem is now re-examined and it is shown that in the general case the dispersion relation is determined not only by the form of the electron Green's function but also by the form of the photon Green's function. The dispersion relation is given in an explicit form.

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On the Dispersion Relation for an Electron Plasma SOV/126-6-2-25/34

S. V. Vonsovskiy (Corresponding Member ... of the Ac.Sc.USSR)
and V. L. Bonch-Bruyevich are thanked for their help.
There are 8 references, 4 of which are Soviet, 4 English.

ASSOCIATION: Ural'skiy gosuniversitet imeni A. M. Gor'kogo
(Ural State University imeni A. M. Gorkiy)

SUBMITTED: April 1, 1957

Card 2/2 1. Electron gas--Properties 2. Electrons--Scattering

SOV/126-6-4-26/34

AUTHOR: Kobelev, L.Ya.**TITLE:**

Taking into Account Correlation in a System of Particles
by Means of the Two-Particle Green's Function (Ob
uchete korrelyatsii v sisteme chashts s pomoshch'yu
dvukhchastichnoy funktsii grina)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6,
Nr 4, pp 750-753 (USSR)**ABSTRACT:** The assembly of non-relativistic electrons may be described completely by means of the Green's function G_N of the system. The function G_N makes it possible to determine the state of the system at any time if the wave-function of the initial state is known. In the self-consistent field approximation, behaviour of a system of particles is described by the one-particle Green's function, determined by the dynamic principle of Schwinger (Ref.3). The processes of virtual interaction of an electron with the self-consistent field are allowed for but, because the Green's function is of the one-particle type, correlation between the electrons is not taken into account. This inter-electron

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Taking into Account Correlation in a System of Particles by Means
of the Two-Particle Green's Function

SOV/126-6-4-26/34

correlation is introduced by means of a "chain" of one-particle, two-particle etc. Green's functions, similar to the chains of distribution functions used in the theory of kinetic equations (Ref.5,6). The present paper deals with the problem of correlation of electrons by means of the two-particle Green's functions. The paper is entirely theoretical. Acknowledgments are made to Professor S.V.Vonsovskiy for his advice. There are 7 references of which 4 are Soviet, 2 English and 1 Japanese.

ASSOCIATION: Ural'skiy Gosudarstvennyy Universitet/(Ural State University imeni A.M.Gor'kogo)

SUBMITTED: 16th April 1957.

Card 2/2